

MATERIAL SAFETY DATA SHEET
 OSHA Hazard Communication Standard
 29 CFR 1910.1200

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Section I

Product Name: MACHINE DESCALER Product Code: AC-0122 Chemical Family: Acid Cleaner Chemical Formula: Mixture MSDS Revision Date: 07/31/95	Manufactured by: Taylor Laboratories, Inc. Address: P.O. Box 15146, Chattanooga, TN 37415 Business Phone: 423-267-5601 Emergency Phone: 423-267-5601 Distributed By: SUPERIOR CHEMICAL & SUPPL Address: 1038 WEST MAIN ST, BOWLING GREEN, KY 42101 Business Phone: (502) 782-3988 Emergency Phone: (502) 782-3988
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Department of Transportation Federal Motor Carrier Hazardous Material Shipping Regulations

Proper Shipping Name: Compound, cleaning liquid (contains hydrochloric acid)

Hazard Class: 8	Identification Number: NA 1760	Packaging Group: II
Comments: ERG, page 60		For Transportation Emergencies, Call: Chemtrec 1-800-424-9300

Section II - Hazardous Ingredients/Identity Information

HAZARDOUS COMPONENT	CAS NUMBER	OSHA PEL	ACGIH TLV	COMMENTS
Hydrochloric acid Non-ionic surfactants	7647-01-0 N/A	(C) 5 ppm N.E.	(C) 5 ppm N.E.	Title III CERCLA, 313 Eye irritation hazard

SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT of 1986 (SARA) Title III requires submission of annual reports of release of toxic chemicals appearing in 40 CFR 372 (Section 313). Section 313 information must be included in all MSDS's that are copied and distributed to end-users. For help and additional information concerning Title III call the EPA Hotline at 1-800-535-0202.

Section 313 Component	Percent	Section 313 Component	Percent
Hydrochloric acid	8.8 %		

Section III - Physical/Chemical Characteristics

Boiling Point: 218 degrees F	Vapor Pressure (mm Hg): N/A	Summary of Hazard Rating (HMIS)		
Freezing Point: N/A	Vapor Density N/A	Hazard	Rating	Key
pH (1%): 1.75	Evaporation Rate N/A	Health: Fire and explosion: Reactivity:	2 0 1	0-Minimal 3-High 1-Slight 4-Extreme 2-Moderate
Solubility in Water: Excellent	Specific Gravity (H2O=1): 1.1			
Appearance and Odor: Clear, red liquid with an acid-type odor.				

Section IV - Fire and Explosion Data

Flash Point (method): Not combustible	Flammable Limits in Air, % by Vol.	LEL N/A	UEL N/A
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Extinguishing Media: Use appropriate media for surrounding structures and material. Use water spray if appropriate to cool containers.

Special Fire Fighting Procedures: As with all chemical fires, wear self-contained breathing apparatus in confined areas or where smoke or fumes can drift or accumulate.

Unusual Fire and Explosion Hazard: Hydrogen gas may form upon contact with soft metals (zinc, aluminum, mild steel, etc)

Section V - Reactivity Data

Stability (unstable/stable): Stable	Hazardous Polymerization: Will not occur
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Stability Conditions to Avoid: Avoid contact with most metals

Incompatibility (Materials to Avoid): Strong bases and most metals

Hazardous Decomposition or By-products: Hydrogen gas upon contact with metals as well as carbon dioxide and/or carbon monoxide

Section VI - Health Hazard Data

Threshold Limit Value: Not established

Route(s) of Entry: Inhalation? Yes Skin? No Ingestion? Yes

Health Hazards-Acute: Eyes-Severe irritation with possible burns depending on length and severity of exposure. Skin-Irritation and possibly burns depending on exposure. Ingestion-Burns to mouth, throat, digestive system, mucous membranes. Inhalation-Irritation or burns to nose, mucous membranes, and respiratory system.

Health Hazards-Chronic: N/A

Carcinogenicity: Not carcinogenic

OSHA Regulated? Not carcinogenic

NTP? Not carcinogenic

Effects of Overexposure: Moderate to severe irritation or burns to all contacted tissues depending on length and severity of exposure. Possible permanent scarring or blindness in extreme cases.

Emergency and First Aid Procedures

Ingestion(swallowing): DO NOT INDUCE VOMITING!! Drink large quantities of water. Obtain immediate medical attention.

Skin Contact: Immediately flush exposed area with large amounts of running water. Remove contaminated clothing and shoes. Seek medical attention if irritation persists or intensifies.

Eye Contact: Immediately flush eyes with running water for 15 minutes being careful to rinse the area behind the eyelids. Obtain immediate medical attention.

Inhalation: Move victim to fresh air. Seek medical attention if irritation persists or intensifies.

Section VII - Spill or Leak Procedures

Steps To Be Taken In Case Material Is Released or Spilled: Obtain proper protective equipment to prevent exposure. Place leaking container in contained area or pump over into a suitable container. For small spills, thoroughly flush the area with water into a sewer connected to a suitable treatment facility if approval is given to do so. For large spills, neutralize the spilled material with soda ash or baking soda until a pH between 5 and 9 is reached then thoroughly flush the material into a sewer connected to a private or municipal treatment facility if approval is given to do so.

Waste Disposal Method: This product contains a material regulated by SARA Title III Section 313. Contact Federal, state, and local authorities for current disposal and reporting requirements.

Section VIII - Special Protection Information

Respiratory Protection(specify type): If vapors or mist cannot otherwise be controlled, wear a NIOSH-approved respirator with an acid gas/mist cartridge. Use additional caution if material contacts hot surfaces as this increases the volatility.

Ventilation: Maintain general plant ventilation to control vapors and mists.

Local Exhaust: N/A

Protective gloves: Rubber or vinyl gloves should be worn to prevent contact.

Eye Protection: Safety glasses or goggles should be worn if eye contact is possible.

Other Protective Equipment: N/A

Section IX - Special Precautions

Precautions To Be Taken in Handling and Storage: Wash hands thoroughly after handling. Launder contaminated clothing before reuse. Avoid contact with metals. DO NOT USE WITH CHLORINE-TYPE CLEANERS!! Store in a cool, dry area. Keep from freezing.

Other precautions: Keep out of reach of children.

Section X - User Responsibility

The responsibility to provide a safe workplace remains with the user. The user should consider the health hazards and safety precautions required in an individual operation to instruct employees and develop work practice procedures for a safe work environment.

The information contained herein is, to the best of our knowledge and belief, accurate. It is the responsibility of the user to comply with all applicable federal, state, and local laws and regulations.